



[North America

- Vehicle technology for transport specialists

[Product range

- The TII Group at a glance

Road transportation



2.1

SCHEUERLE Highway Trailer



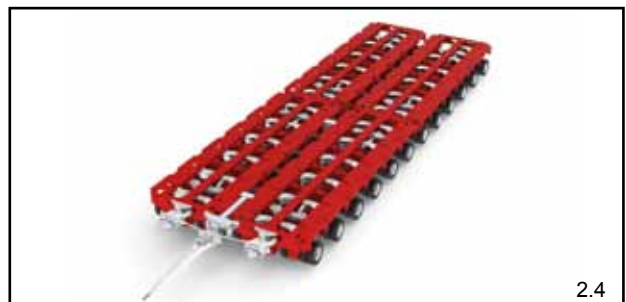
2.2

SCHEUERLE HighwayCombi



2.3

SCHEUERLE WideCombi W0 / W6



2.4

K25, K22, InterCombi, MHD

Off-Road transportation



2.5

SCHEUERLE / KAMAG Ship Section Transporter



2.6

SCHEUERLE SPMT / KAMAG K24



2.7

KAMAG U-Frame / Slag Pot Carrier



2.8

NICOLAS Reel Carrier

[Highway Trailer

- The super-light-weight trailer series

Available versions

- Semi-trailer 9-axle 8'6" (non-telescopic and single-telescopic version)
- Semi-trailer 9-axle 10'0" (non-telescopic, single- and double-telescopic)
- Trailer 10-axle 10'0" (non-telescopic and single-telescopic version)



SCHEUERLE Highway Trailer

3.1

Advantages

- Fully hydraulic suspension
- Lowest dead weight in its class
- Available in 8'6" or 10'0" width
- Payloads up to (108 t) 238.000 lbs
- Low drive height of about 37"
- Superior load length; extendable to 107'
- For all kind of vessels, moduls, compressor skids, rail cars, construction beams
- Complies with most US or Canadian permit requirements
- Available with gooseneck or drawbar
- Hydraulic gooseneck compensation plus infinite 5th wheel load adjustment
- Rear drive capability



[HighwayCombi

- Modular and light weight

Available versions

- Semi-trailer 8-axle
- Semi-trailer 12-axle
- Semi-trailer 14-axle
- Trailer 8-axle
- Trailer 10-axle
- Trailer 12-axle



Advantages

- Light weight trailer
- Rigid and proven pendulum axle technology
- Compatible with existing InterCombi CV platform trailers
- Complies to most US and Canadian permit requirements
- Available with gooseneck or drawbar
- Steering angle of +/- 60°
- Payloads up to (215 t) 470,000 lbs (technical value)
- Axle compensation with 650 mm (25,6") stroke
- Gooseneck with infinite 5th wheel load adjustment



4.1

4 SCHEUERLE HighwayCombi with a vessel



4.2

HighwayCombi with a transformator

[WideCombi W0 / W6

- The “wide-wider-widest” system



WideCombi with low bed deck



WideCombi as 10 axle semi-trailer



Advantages

- Dual Lane trailer with high bending moment
- Adjustable width 15'9" - 18' - 20'
- +/- 60° steering angle
- 9' axle base
- Available with fully hydraulic gooseneck or as trailer combination
- New PowerBooster technology provides additional traction
- A wide range of accessories and options including goosenecks, bolsters and decks provide the ultimate transport solution
- Gooseneck with infinite 5th wheel load adjustment



12 axle WideCombi W0 trailer combination

[K25, K22, InterCombi and MHD



SCHEUERLE, NICOLAS and KAMAG are offering a wide range of vehicles and accessories, designed specifically to transport all kind of superloads on public roads as well as in production facilities.

The worldwide proven quality of the SCHEUERLE, NICOLAS and KAMAG trailers is setting standards since decades. Along with the huge choice of standard accessories, tailor made solutions complete these trailers for all imaginable job.

Decks-, bolsters-, accessories-solutions



3-file / 4-file / Dual Lane

In addition to the well-known 4-file (double wide) configuration which is build out of standard solid trailers, K25, InterCombi and MHD trailers are also available as split trailers to create 3-file or Dual Lane solutions. With these solutions we provide a wide range of possibilities to transport wide loads or loads with a high COG safely to their destination.



7.1

3-file-configuration



7.2

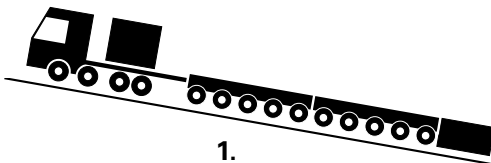
4-file-configuration



7.3

Dual Lane - configuration

PowerBooster - the 3-in-1 solution!



1.



2.



3.

1. As a push truck – to assist when more traction is required
2. On public roads – as trailer combination (without push function)
3. For in-plant transports – as a self-propelled trailer

Available as: InterCombi PowerBooster / K25 PowerBooster / MHD PowerBooster



7.4

SCHEUERLE PowerBooster configuration

[K25, InterCombi and MHD

Self-Propelled, mechanically steered

The K25, InterCombi and MHD series are also available as self-propelled modular transporters platforms to be used in configuration with the standard trailers. Powerful PPUs enable great drive lift and lower performance as well as precise steering. The SP (self-propelled) modules open up a wide range of on-site heavy transportation for standard trailers.



Self-Propelled, electronically steered

The electronic steering system of the K25, InterCombi and MHD trailers provide with a steering angle of $\pm 140^\circ$ extreme maneuverability under full load. Together with the 7 steering programs and the absolutely accurate drive system SPE (self-propelled, electronically steered) modules solve your job.

Extreme maneuverability



Front-wheel steering



Rear-wheel steering



Diagonal steering along



Diagonal steering cross



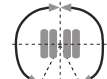
Circular steering



All-wheel steering along



All-wheel steering cross



$\pm 140^\circ$
Steering angle



NICOLAS MHD SPE



SCHEUERLE-KAMAG K25 SPE

[SPMT / K24

- Self-Propelled Modular Transporters



9.1
SCHEUERLE SPMT transporting a huge excavator



9.2
KAMAG K24 in operation - bridge construction

SPMT Technology - Extremely robust, extremely strong

SCHEUERLE SPMTs and KAMAG K24 (Self-Propelled Modular Transporters) have moved giant loads all over the world. The module transporters are based on the experience gained from the development and production of more than 7,000 axle lines. With our technology, loads in excess of 15,000 tons, such as factory modules for power stations, seawater desalination plants and oil exploration equipment as well as offshore platforms, are transported safely and reliably to their final destinations. The SPMT axle lines of the 1st generation delivered in 1984 are still in use every day.



9.3
Plant construction with SCHEUERLE SPMT

Advantages

- More than 7,000 axle lines in use around the world
- International network of sales, customer support and after sales service
- Functional and reliable control technology developed in-house
- Loadable on container flats due to compact vehicle dimensions and optimal dead weight



9.4
KAMAG K24 with the space shuttle Endeavour



9.4
SCHEUERLE SPMT used in the mining industry

[Onshore Wind

- Vehicle technologies for the transportation of wind power plants



SCHEUERLE blade adapter mounted to InterCombi modules

10.1



SCHEUERLE InterCombi transporting a nacelle

10.2

The TII Group, comprised of SCHEUERLE, NICOLAS and KAMAG has developed in cooperation with the wind power industry a wide selection of specialized products and solutions.

Each component of a wind turbine requires specialized transportation. The TII Group offers for its renown trailers a wide range of special developed accessories to meet these requirements.

Innovative concepts for the transport of rotor blades, nacelles and tower segments have forged the TII Group to the global forefront of this specialized market.



KAMAG K24 with a gigantic wind tower

10.3



10.4

NICOLAS MDEL with the new wind tower adapter

[Offshore Wind

- Vehicle technologies for the transportation of wind power plants



Load out of a foundation structure with SCHEUERLE SPMTs



3 x 8-axle SCHEUERLE SPMT in open compound transporting an offshore tripod foundation

Well-known companies in the offshore wind industry rely on proven transportation technique from the TII Group. No matter whether it is extremely long rotor blades, nacelles, oversize tower segments or huge foundation structures. Whether inside the company, public roads or on the deck of assembly vessels SCHEUERLE, NICOLAS and KAMAG have the right solution for every transportation task. Safe and reliable!



Tower section with maintenance podium on a MDED combination from NICOLAS



KAMAG K24 in operation: an offshore wind turbine with hub on its way on a barge



KAMAG Modultransporter K24 moving an oversize monopile

[Shipyard Industry

- For transportation in shipyards, ports and over the road



KAMAG Shipyard Transporter type 1400 - highly maneuverable even in difficult conditions 12.1



SCHEUERLE Shipyard Transporter in operation 12.2

Our transporters move gigantic ships, submarine parts, or even completely prefabricated drilling platforms, vessels and submarines. Ship sections are available from 120 to 1,000 t payload capacity.

Worldwide SCHEUERLE and KAMAG ship sections transporters and SPMT combinations move gigantic sections, engines and hull pieces from fabrication to the assembly place and bring them into precise position. Even complete vessels, submarines or prefabricated off-shore structures are transported from and to ships lifts and decks.



SPMTs with load distribution frames for the transport of ships 12.3



©photo: DCNS

12.4

Submarine transport on KAMAG K24



12.5

SCHEUERLE InterCombi SPE transporting a ship section

[Mining

- Professional solutions for heavy machines and materials



NICOLAS Tractomas - the most powerful prime mover in the world up to 1,000 t towing capacity



SCHEUERLE InterCombi in 4-file-configuration transporting huge mining excavator

SCHEUERLE, NICOLAS and KAMAG provide customised transport solutions for a wide range of tasks in the mining industry.

For economical and safe transportation of machinery, excavators, bucket wheel excavators and other equipment, the InterCombi, K25 and MHD series, SPMT (Self-propelled Modular Transporter) or K24 transporters, as well as industrial transporters are ideally suited.

[Metallurgy

- For the roughest jobs in the world

Extreme operating conditions, hot slag with up to 1,300 degrees, liquid steel, bulk materials, red hot slabs or coils weighing several tons and more - the extreme working conditions in steel mills and smelting works are a challenge for workers and machinery alike. SCHEUERLE, NICOLAS and KAMAG vehicles are specially developed to meet the requirements of this industry.

The TII Group offers its clients for the metallurgy industry an extensive transporter and service programme to solve the different transportation tasks.



SCHEUERLE Industrial Lift Transporter with dumping device



KAMAG U-Frame Transporter handling hot slag

[Air & Space Industry

- When precision matters



SCHEUERLE transporter with a rocket motor weighing 200 t



NICOLAS self-propelled special vehicle for aircraft bodies

SCHEUERLE, NICOLAS and KAMAG support the world's air- and space industry since decades with tailor made solutions. We know about the value of these goods and handle them with the necessary caution and diligence. Customers worldwide entrust their products to our vehicles.



KAMAG transporter with a sensitive rocket stage



NICOLAS special transporter for railed cargo-transship of an aircraft body



KAMAG transporter for launch pad service equipment

[Special Applications

- Custom vehicles



SCHEUERLE Railcar transporter

15.1



SCHEUERLE special transporter handling radio telescope antennas in Chile

15.2

Every industry has very specific requirements, which are expected from the TII Group transport solutions. Our technical know-how gained over more than three hundred years of accumulated experience, in combination with well-founded industrial expertise, allows us to develop sophisticated transport solutions for all special applications you might think of.



Special side girder decks available with payload capacities from 250 up to 1,000 t

15.3



SCHEUERLE Beaver - the professional transport system for tunnel construction sites

15.4



NICOLAS Reel Carrier with lift and carry capacity from 50 up to 500 t

15.5

[Competence

- The TII Group at a glance

SCHEUERLE, NICOLAS and KAMAG are subsidiaries of the TII GmbH – Transporter Industry International. The TII Group is a global leader in developing and manufacturing top class heavy goods vehicles and is part of the group of companies owned by the Rettenmaier family from Heilbronn, Germany. Multi-entrepreneur Senator E. h. Otto Rettenmaier expressed his fascination with technology by acquiring SCHEUERLE Fahrzeugfabrik GmbH in 1987. NICOLAS Industrie S.A.S was acquired in 1994, and ten years later KAMAG Transporttechnik GmbH & Co. KG. Many years of technical know-how allow the TII Group to set

international standards with its heavy goods vehicles. The heaviest transport of more than 15,000 tons earned SCHEUERLE and KAMAG vehicles an impressive world record. Offshore and aerospace industries, shipyards, plant engineers, iron and steel works, as well as heavy load carriers, count on the transport technology of the TII Group, whose sales and service offer a global presence and comprehensive local support for its customers. All international sales activities for SCHEUERLE, NICOLAS and KAMAG products are handled by TII Sales – Transporter Industry International Sales GmbH & Co. KG.

Examples of our product range



16.1
Offshore & Plant Construction



16.2
Shipyard Industry



16.3
Road Transport



16.4
Special Applications



16.5
Air & Space Industries



16.6
Road Transport / Industry



16.7
Metallurgy



16.8
Bridge & Tunnel Construction



16.9
Logistic



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